8:27:33 P.M.

```
<script language="JavaScript">
<!-- Hide the script from old browsers --

var timerID = null;
var timerRunning = false;
var id,pause=0,position=0;

function stopclock (){
        if(timerRunning)
                clearTimeout(timerID);
        timerRunning = false;
}

function showtime () {
        var now = new Date();
        var hours = now.getHours();
        var minutes = now.getMinutes();
        var seconds = now.getSeconds()
        var timeValue = "" + ((hours >12) ? hours -12 :hours)
        timeValue += ((minutes < 10) ? ":0" : ":") + minutes
        timeValue += ((seconds < 10) ? ":0" : ":") + seconds
        timeValue += (hours >= 12) ? " P.M." : " A.M."
        document.clock.face.value = timeValue;
        timerID = setTimeout("showtime()",1000);
        timerRunning = true;
}

function startclock () {
        stopclock();
        showtime();
}
// --End Hiding Here -->
</script>
<body onLoad="startclock()">
<form name="clock" onSubmit="0">
<input type="text" name="face" size=13 value="">
</form>
```

Fig. 1

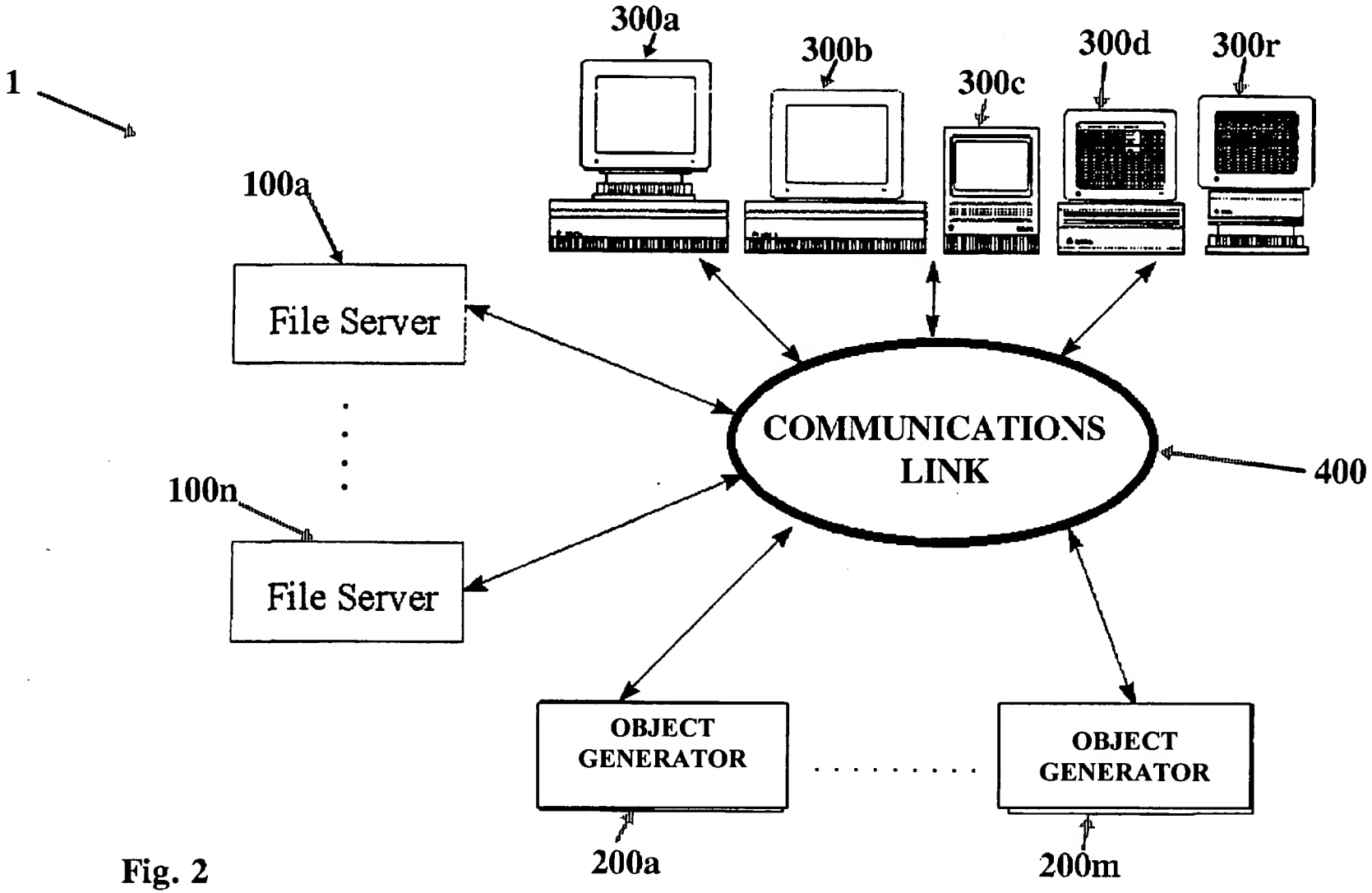


Fig. 2

09513614.042706

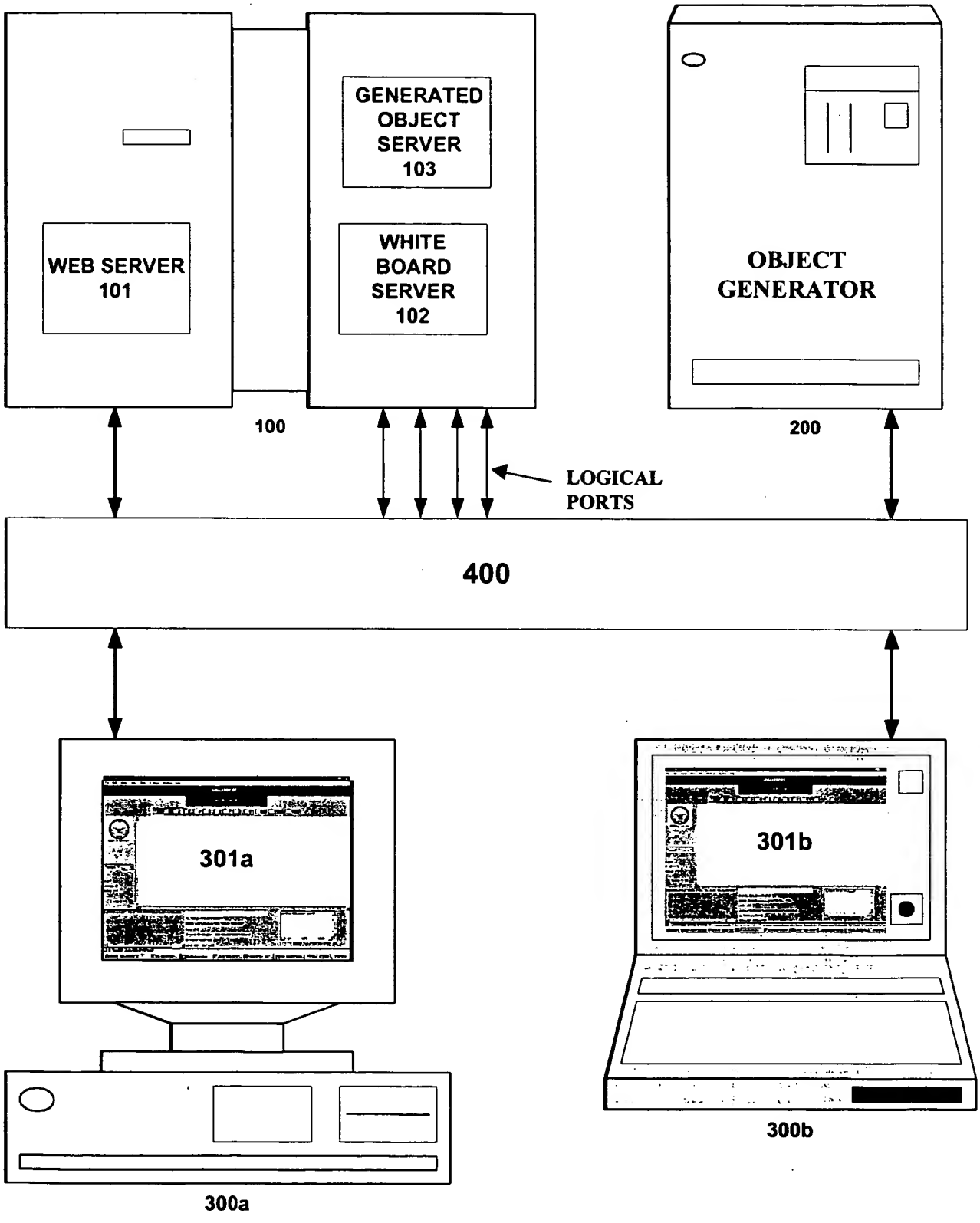

GENERATED OBJECT SERVER 103
WEB SERVER 101
WHITE BOARD SERVER 102
OBJECT GENERATOR
100
200
LOGICAL PORTS
400
301a
301b
300a
300b

Fig. 3

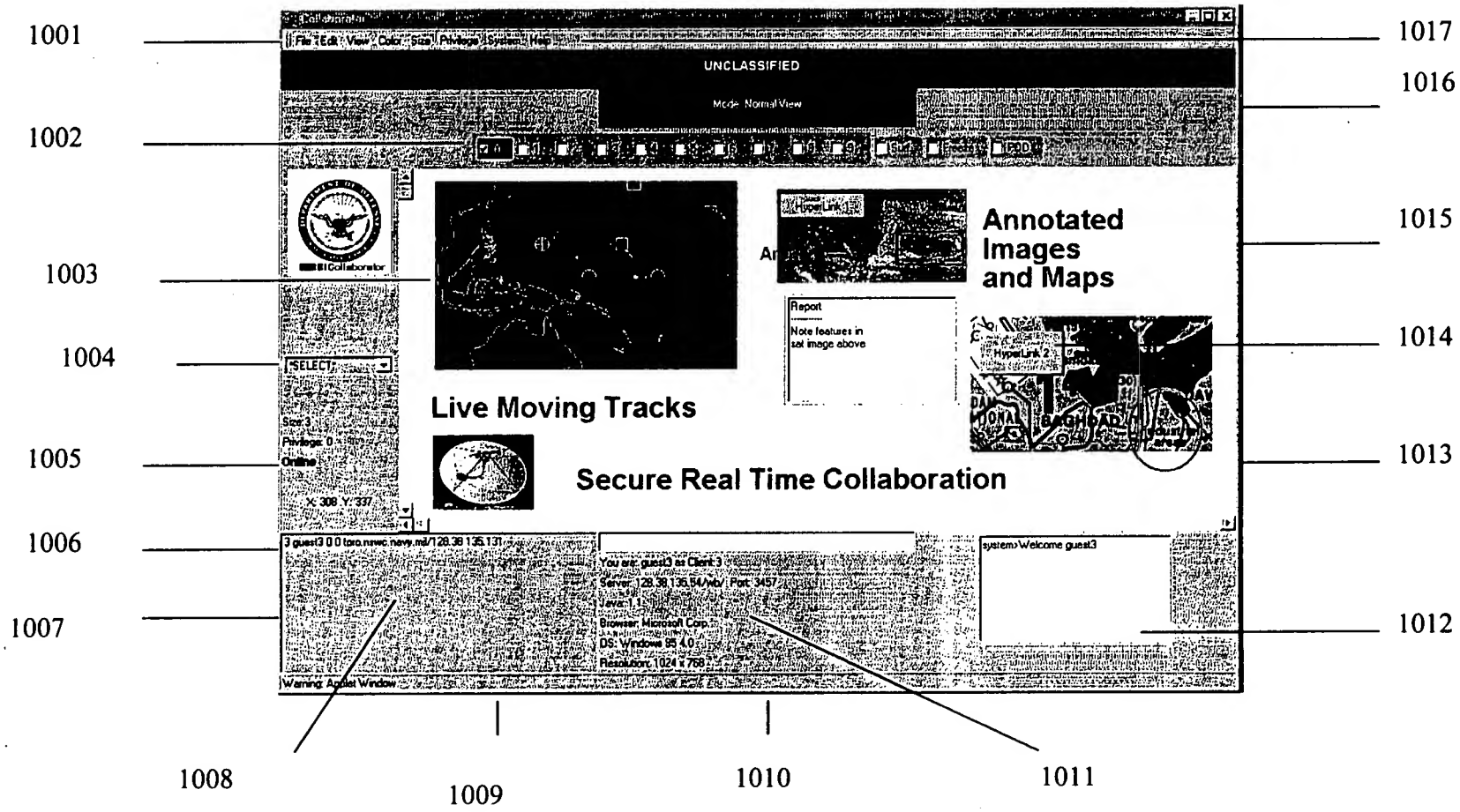


Fig. 4

09553364.041703

```
<HTML>
<HEAD>
  <title>Collaborator</title>
</HEAD>
<body bgcolor=#ffffff text=#000000 vlink=#ff5555 link=#0000ff>
<CENTER>
  <font color=#00AA00><center><h5>UNCLASSIFIED</h5></center></font>
</CENTER>
<CENTER>
<IMG ALIGN=CENTER SRC="dodlogo.gif" alt="Logo" height=150 width=150>
<br>
<br>
<applet code="wb.class" name="wb" archive="wb.jar" width="20"
height="20">
<param name=UploadURL value="/cgi-bin/upload.pl">
<param name=FileDirectory value="uploadadmin/">
<param name=DocumentDirectory value="uploadadmin/">
<param name=FileDirectoryPath value="uploadedfiles/">
<param name=UserGuideURL value="userguide.html">
<param name=RevHistoryURL value="revisionhistory.html">
<param name=WhiteboardSecurity value="UNCLASSIFIED">
<param name=PortNumber value="3457">
<param name=PanelLogo value="dodseal.gif">
<param name=Logo1 value="dodlogo.gif">
<param name=WhiteboardDrawObjects value="
*SELECT*,
Freehand,
Oval,
Filled Oval,
Rectangle,
Filled Rectangle,
Text,
Image,
HyperLink,
java.awt.TextArea,
java.awt.TextField,
Map Tracks,
Viewer3D
">
A Java enabled browser is required to view this page.
</applet>
</CENTER>
<p>
<b>
You may login as a guest.<br>
<br>
User: guest<br>
Password: guest<br>
</b>
<br>
</body>
</HTML>
```

Fig. 5

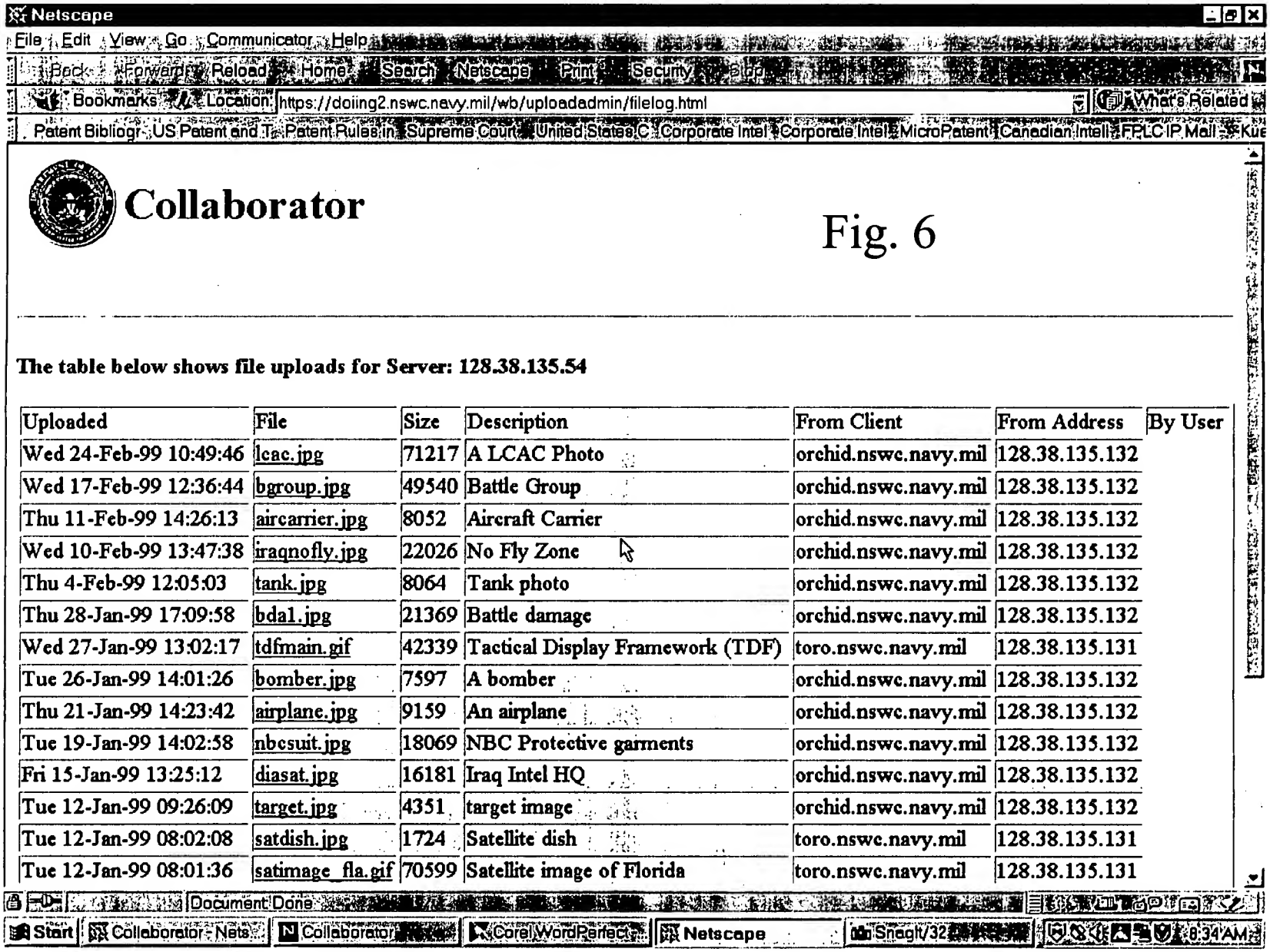


Fig. 6

The table below shows file uploads for Server: 128.38.135.54

Uploaded	File	Size	Description	From Client	From Address	By User
Wed 24-Feb-99 10:49:46	lcac.jpg	71217	A LCAC Photo	orchid.nswc.navy.mil	128.38.135.132	
Wed 17-Feb-99 12:36:44	bgroup.jpg	49540	Battle Group	orchid.nswc.navy.mil	128.38.135.132	
Thu 11-Feb-99 14:26:13	aircarrier.jpg	8052	Aircraft Carrier	orchid.nswc.navy.mil	128.38.135.132	
Wed 10-Feb-99 13:47:38	iraqnofly.jpg	22026	No Fly Zone	orchid.nswc.navy.mil	128.38.135.132	
Thu 4-Feb-99 12:05:03	tank.jpg	8064	Tank photo	orchid.nswc.navy.mil	128.38.135.132	
Thu 28-Jan-99 17:09:58	bda1.jpg	21369	Battle damage	orchid.nswc.navy.mil	128.38.135.132	
Wed 27-Jan-99 13:02:17	tdfmain.gif	42339	Tactical Display Framework (TDF)	toro.nswc.navy.mil	128.38.135.131	
Tue 26-Jan-99 14:01:26	bomber.jpg	7597	A bomber	orchid.nswc.navy.mil	128.38.135.132	
Thu 21-Jan-99 14:23:42	airplane.jpg	9159	An airplane	orchid.nswc.navy.mil	128.38.135.132	
Tue 19-Jan-99 14:02:58	nbcsuit.jpg	18069	NBC Protective garments	orchid.nswc.navy.mil	128.38.135.132	
Fri 15-Jan-99 13:25:12	diasat.jpg	16181	Iraq Intel HQ	orchid.nswc.navy.mil	128.38.135.132	
Tue 12-Jan-99 09:26:09	target.jpg	4351	target image	orchid.nswc.navy.mil	128.38.135.132	
Tue 12-Jan-99 08:02:08	satdish.jpg	1724	Satellite dish	toro.nswc.navy.mil	128.38.135.131	
Tue 12-Jan-99 08:01:36	satimage_fla.gif	70599	Satellite image of Florida	toro.nswc.navy.mil	128.38.135.131	

0951364.042700

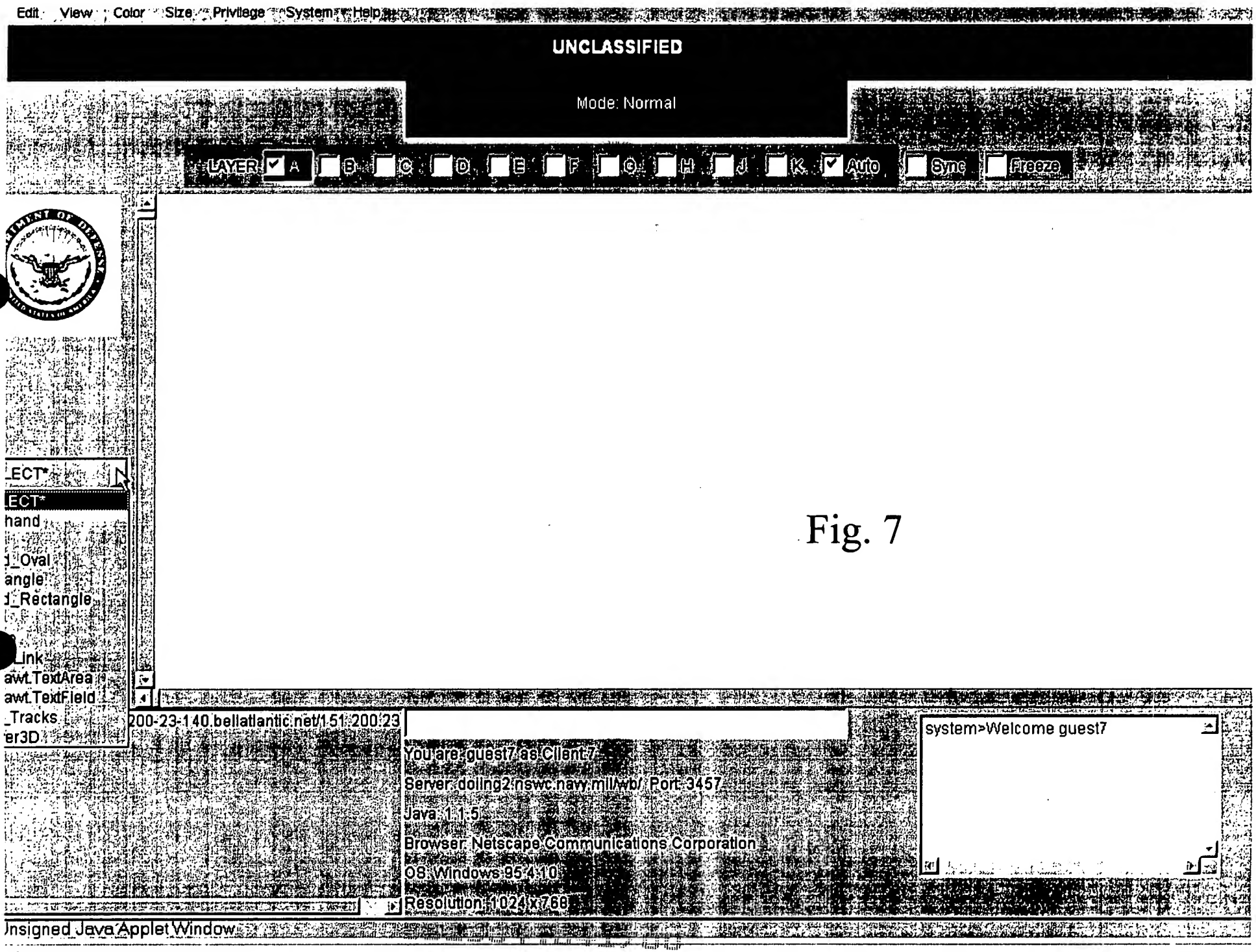

Edit View Color Size Privilege System Help
UNCLASSIFIED
Mode: Normal
LAYER A B C D E F G H J K Auto Sync Freeze
ECT*
hand
_Oval
angle
_Rectangle
_Link
awt.TextArea
awt.TextField
_Tracks
er3D
200-23-140.bellatlantic.net/151.200.23
You are guest7 as Client 7
Server: doling2.nswc.navy.mil/wb/ Port: 3457
Java 1.1.5
Browser: Netscape Communications Corporation
OS: Windows 95 4.10
Resolution: 1024 x 768
system>Welcome guest7
Unsigned Java Applet Window

Fig. 7

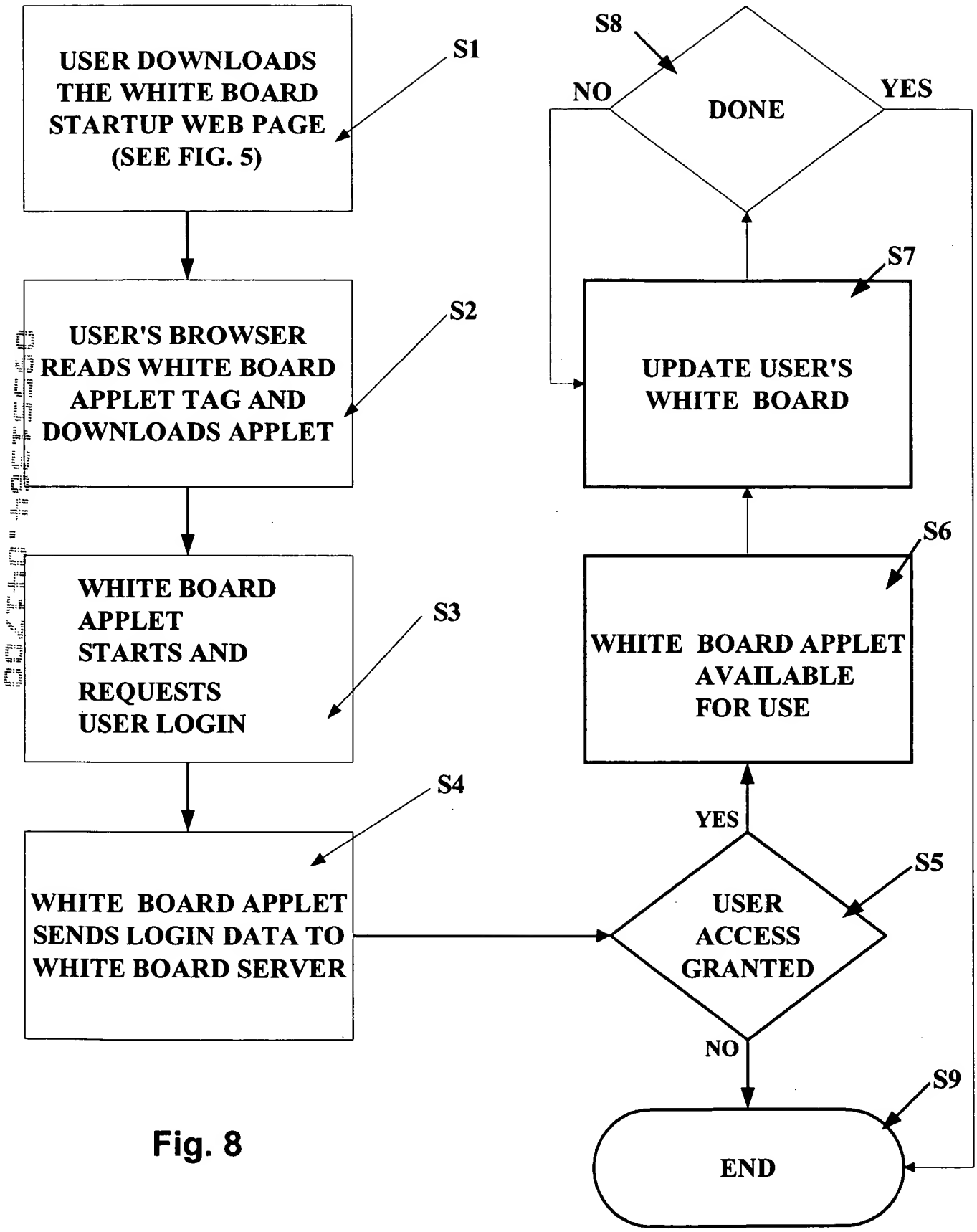

USER DOWNLOADS THE WHITE BOARD STARTUP WEB PAGE (SEE FIG. 5)
S1
USER'S BROWSER READS WHITE BOARD APPLET TAG AND DOWNLOADS APPLET
S2
WHITE BOARD APPLET STARTS AND REQUESTS USER LOGIN
S3
WHITE BOARD APPLET SENDS LOGIN DATA TO WHITE BOARD SERVER
S4
USER ACCESS GRANTED
S5
YES
NO
WHITE BOARD APPLET AVAILABLE FOR USE
S6
UPDATE USER'S WHITE BOARD
S7
DONE
S8
NO
YES
END
S9

Fig. 8

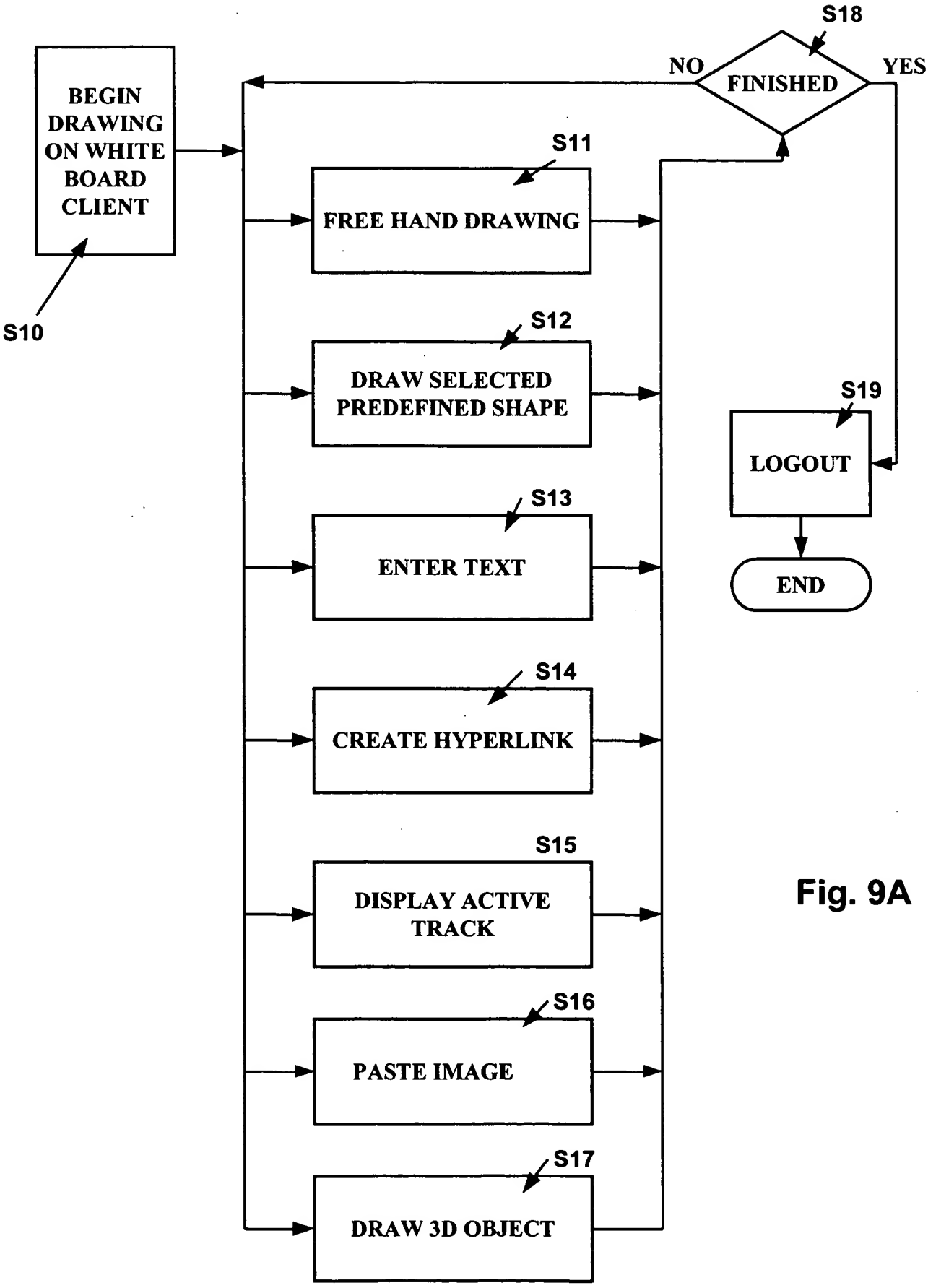

BEGIN DRAWING ON WHITE BOARD CLIENT
S10
S11
FREE HAND DRAWING
S12
DRAW SELECTED PREDEFINED SHAPE
S13
ENTER TEXT
S14
CREATE HYPERLINK
S15
DISPLAY ACTIVE TRACK
S16
PASTE IMAGE
S17
DRAW 3D OBJECT
S18
FINISHED
NO
YES
S19
LOGOUT
END

Fig. 9A

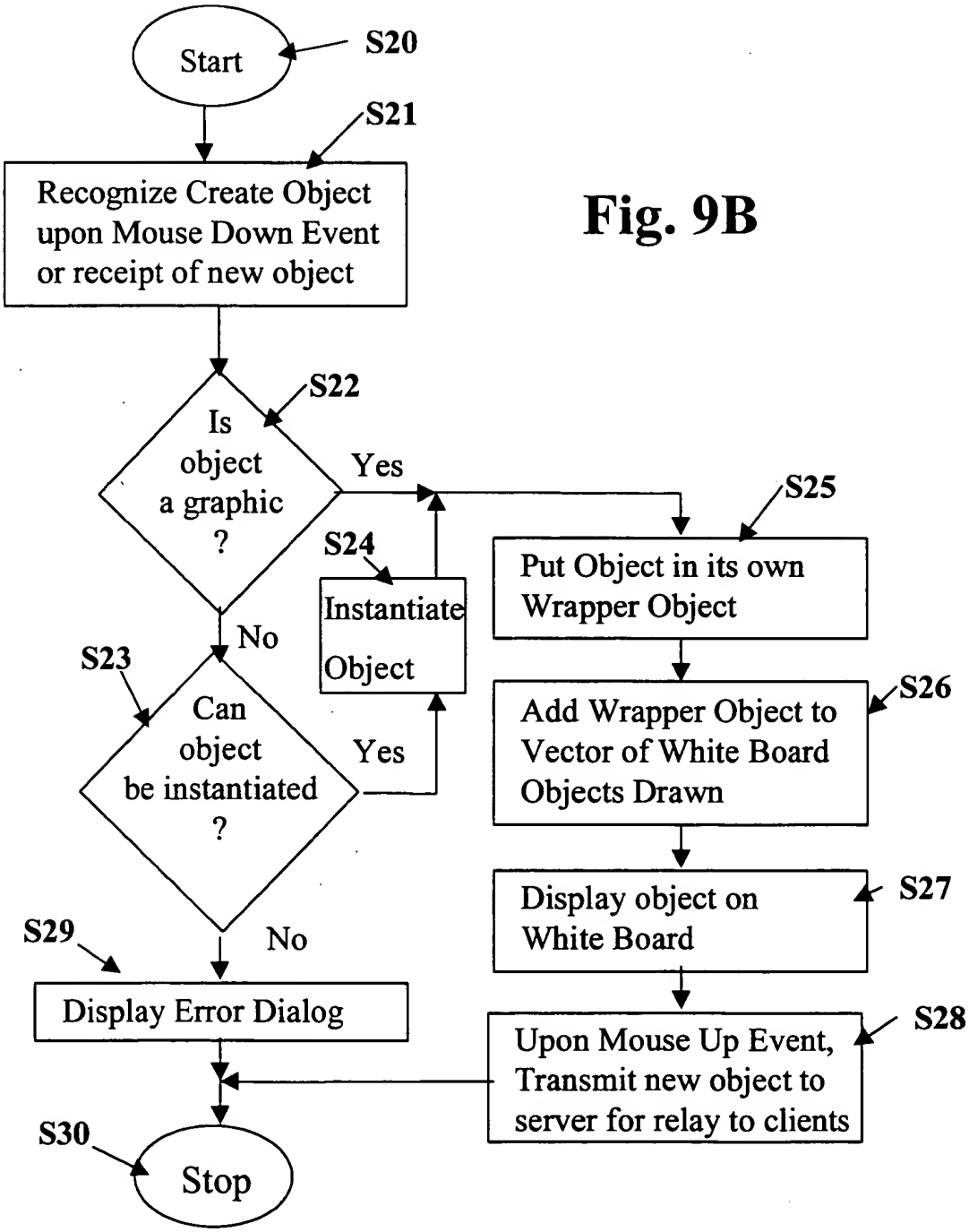

Start
S20
S21
Recognize Create Object upon Mouse Down Event or receipt of new object
S22
Is object a graphic ?
Yes
No
S24
Instantiate Object
S23
Can object be instantiated ?
Yes
No
S25
Put Object in its own Wrapper Object
S26
Add Wrapper Object to Vector of White Board Objects Drawn
S27
Display object on White Board
S28
Upon Mouse Up Event, Transmit new object to server for relay to clients
S29
Display Error Dialog
S30
Stop

Fig. 9B

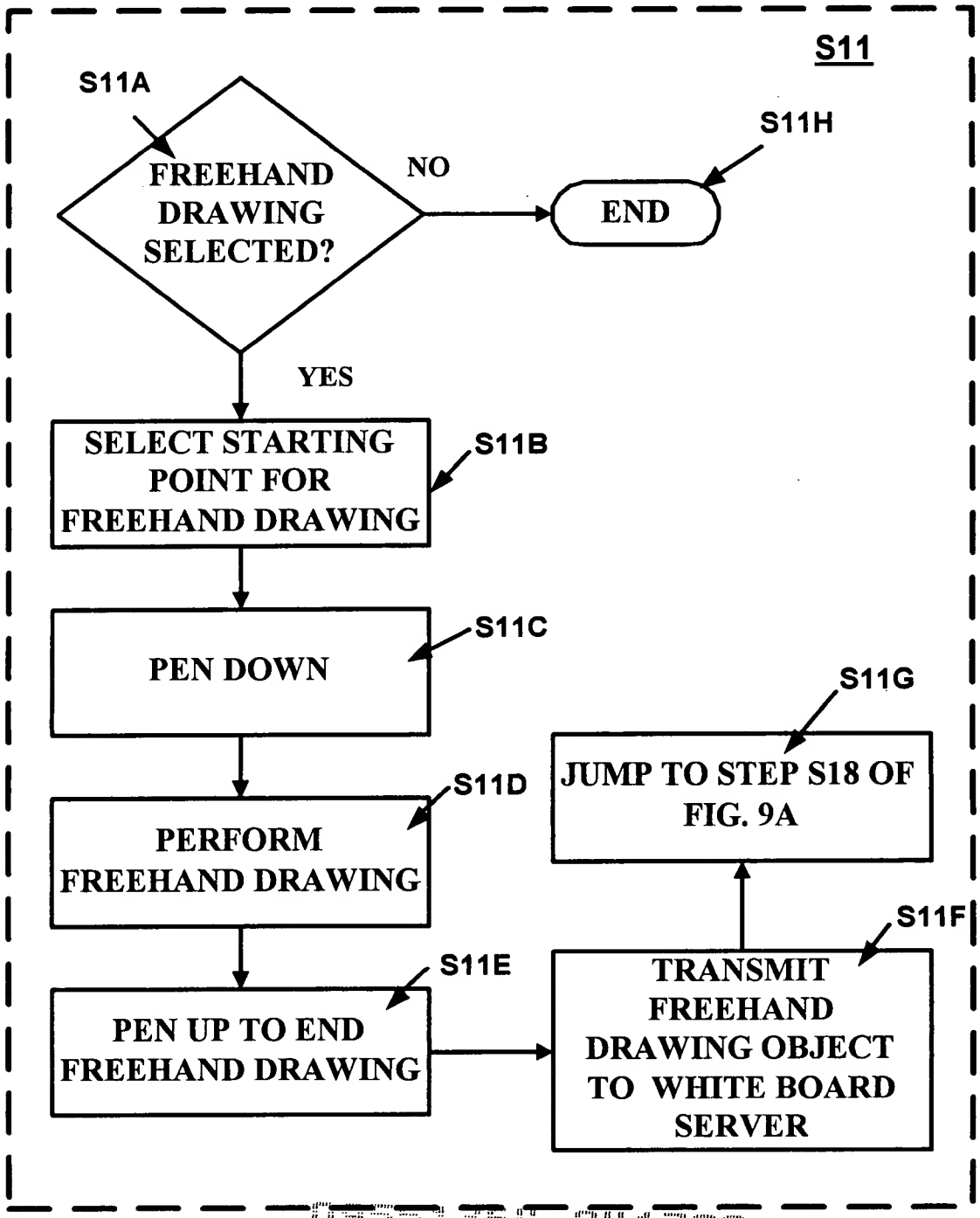

S11
S11A
FREEHAND DRAWING SELECTED?
NO
S11H
END
YES
SELECT STARTING POINT FOR FREEHAND DRAWING
S11B
PEN DOWN
S11C
PERFORM FREEHAND DRAWING
S11D
PEN UP TO END FREEHAND DRAWING
S11E
TRANSMIT FREEHAND DRAWING OBJECT TO WHITE BOARD SERVER
S11F
JUMP TO STEP S18 OF FIG. 9A
S11G

Fig. 10A

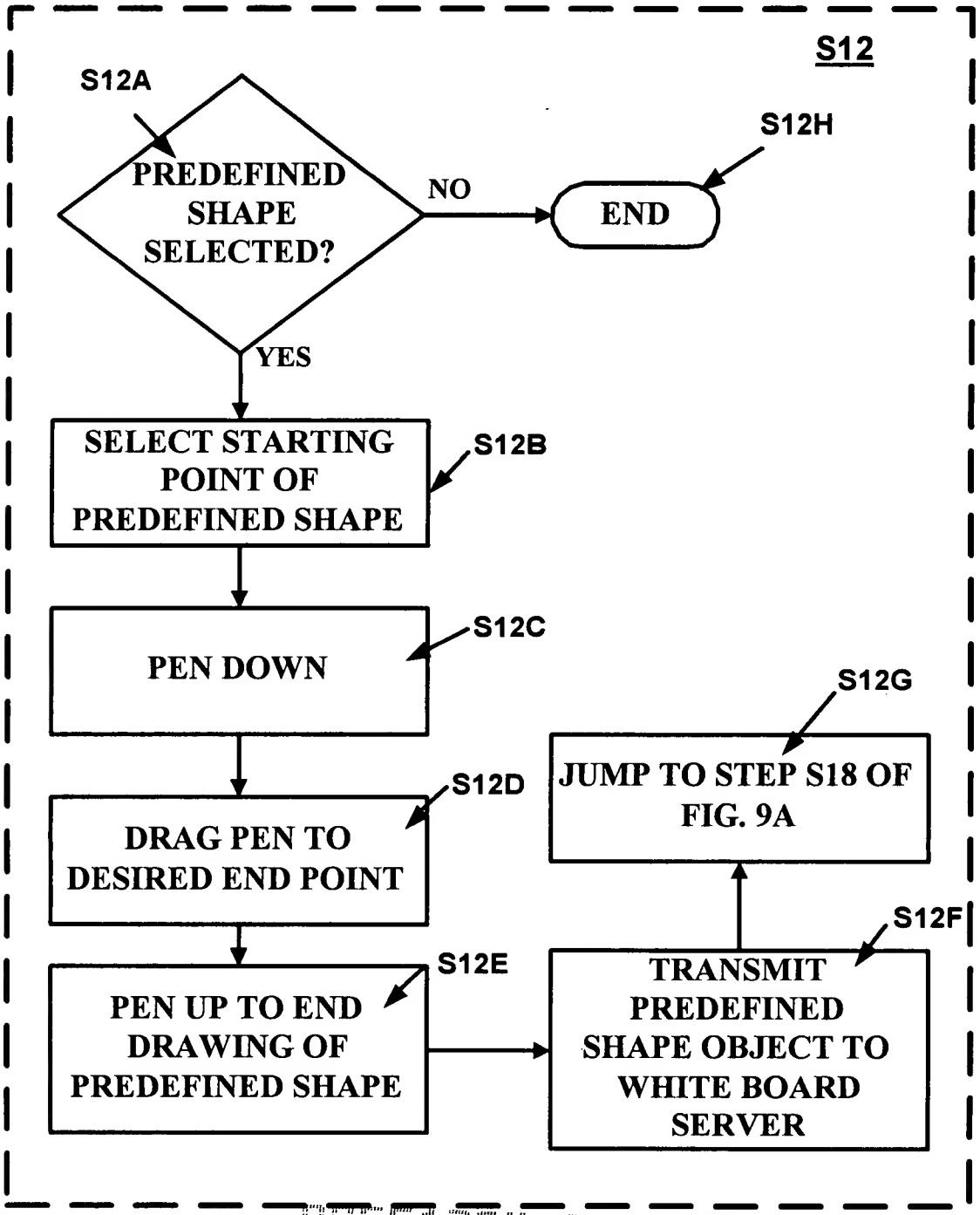

S12
S12A
PREDEFINED SHAPE SELECTED?
NO
S12H
END
YES
SELECT STARTING POINT OF PREDEFINED SHAPE
S12B
PEN DOWN
S12C
DRAG PEN TO DESIRED END POINT
S12D
PEN UP TO END DRAWING OF PREDEFINED SHAPE
S12E
TRANSMIT PREDEFINED SHAPE OBJECT TO WHITE BOARD SERVER
S12F
JUMP TO STEP S18 OF FIG. 9A
S12G

Fig. 10B

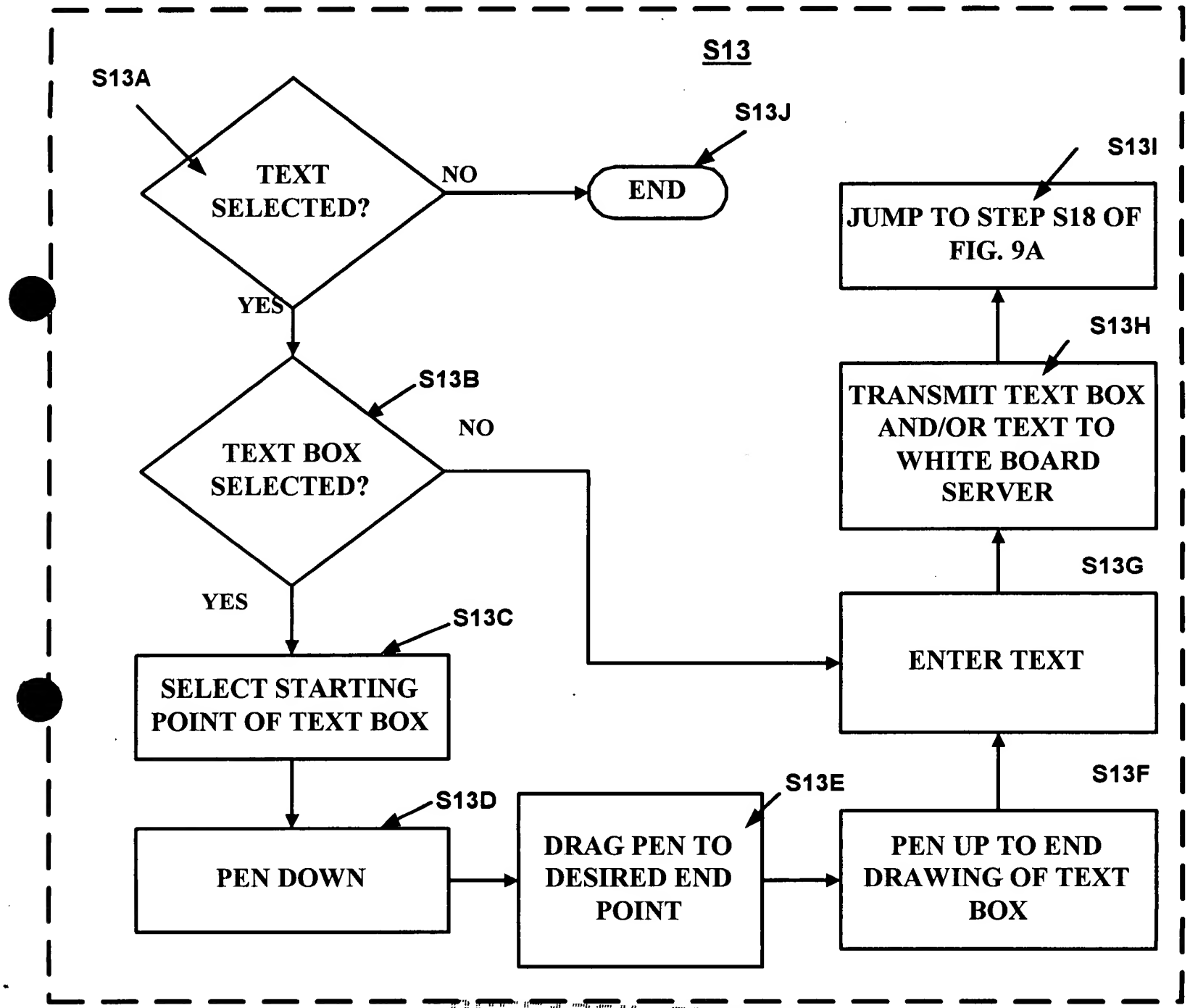

S13
S13A
TEXT SELECTED?
NO
S13J
END
YES
S13B
TEXT BOX SELECTED?
NO
YES
S13C
SELECT STARTING POINT OF TEXT BOX
S13D
PEN DOWN
S13E
DRAG PEN TO DESIRED END POINT
S13F
PEN UP TO END DRAWING OF TEXT BOX
S13G
ENTER TEXT
S13H
TRANSMIT TEXT BOX AND/OR TEXT TO WHITE BOARD SERVER
S13I
JUMP TO STEP S18 OF FIG. 9A

Fig. 10C

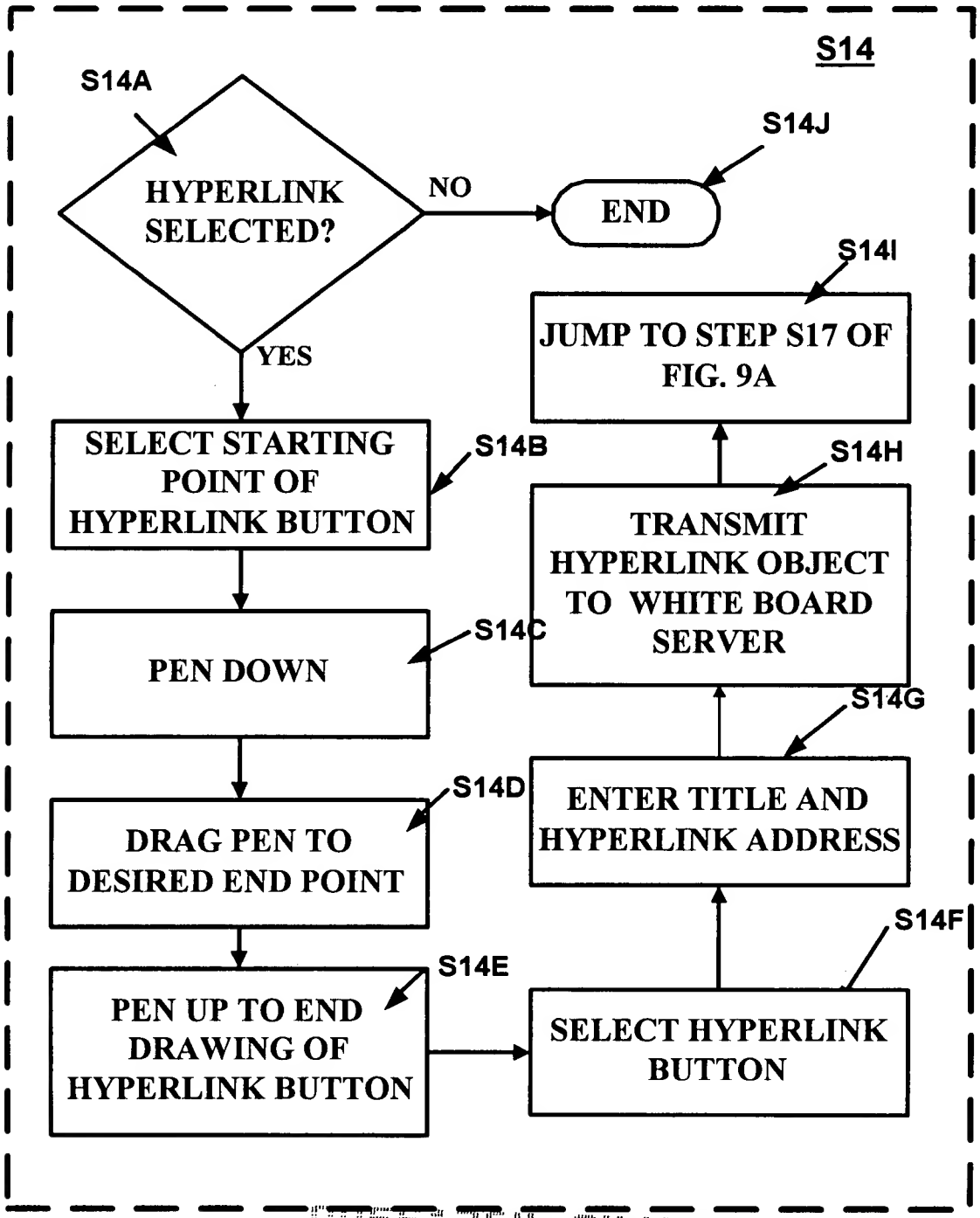

S14
S14A
HYPERLINK SELECTED?
NO
S14J
END
YES
S14I
JUMP TO STEP S17 OF FIG. 9A
SELECT STARTING POINT OF HYPERLINK BUTTON
S14B
S14H
TRANSMIT HYPERLINK OBJECT TO WHITE BOARD SERVER
PEN DOWN
S14C
S14G
ENTER TITLE AND HYPERLINK ADDRESS
DRAG PEN TO DESIRED END POINT
S14D
S14F
PEN UP TO END DRAWING OF HYPERLINK BUTTON
S14E
SELECT HYPERLINK BUTTON

Fig. 10D

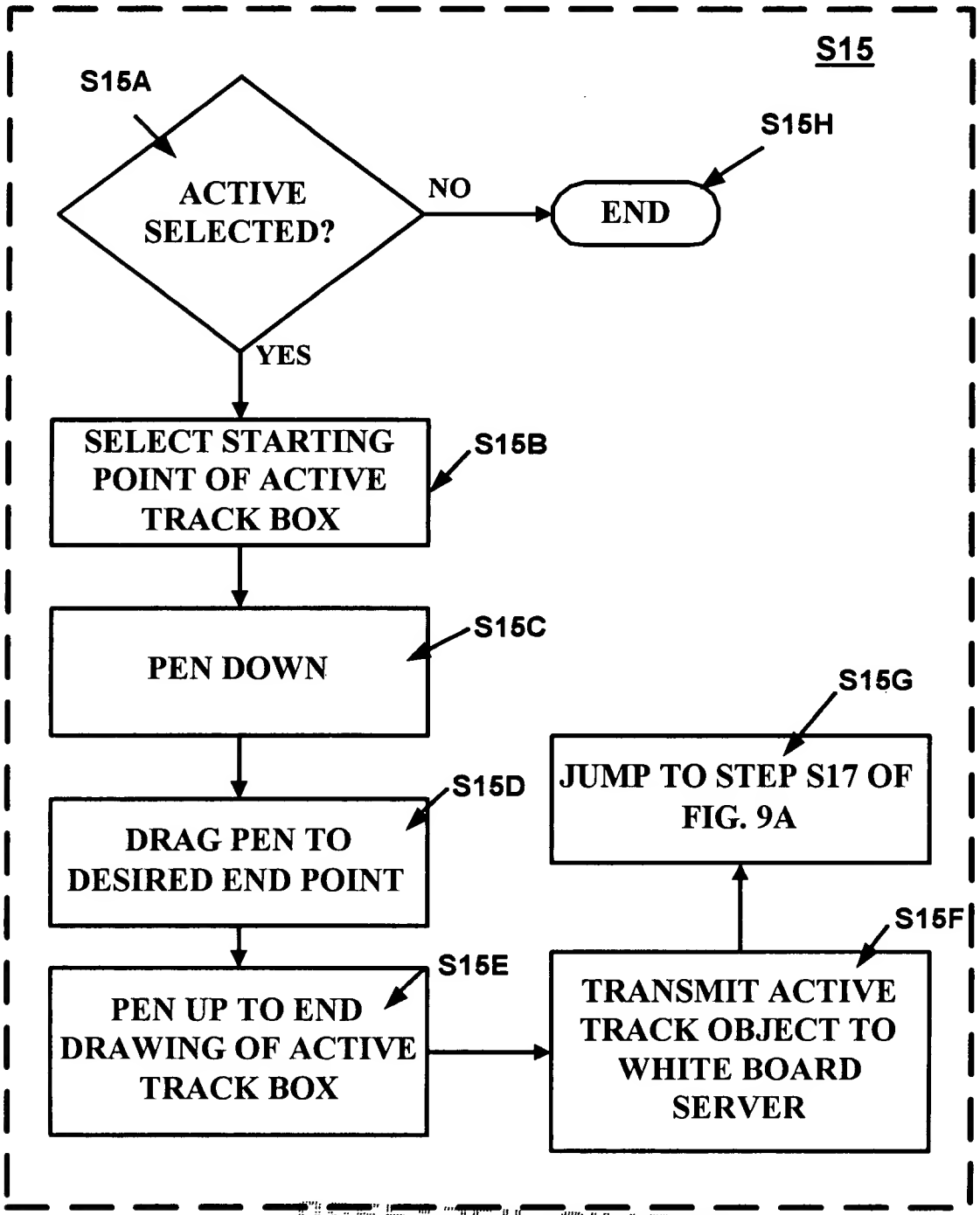

S15
S15A
ACTIVE SELECTED?
NO
S15H
END
YES
SELECT STARTING POINT OF ACTIVE TRACK BOX
S15B
PEN DOWN
S15C
DRAG PEN TO DESIRED END POINT
S15D
PEN UP TO END DRAWING OF ACTIVE TRACK BOX
S15E
TRANSMIT ACTIVE TRACK OBJECT TO WHITE BOARD SERVER
S15F
JUMP TO STEP S17 OF FIG. 9A
S15G

Fig. 10E

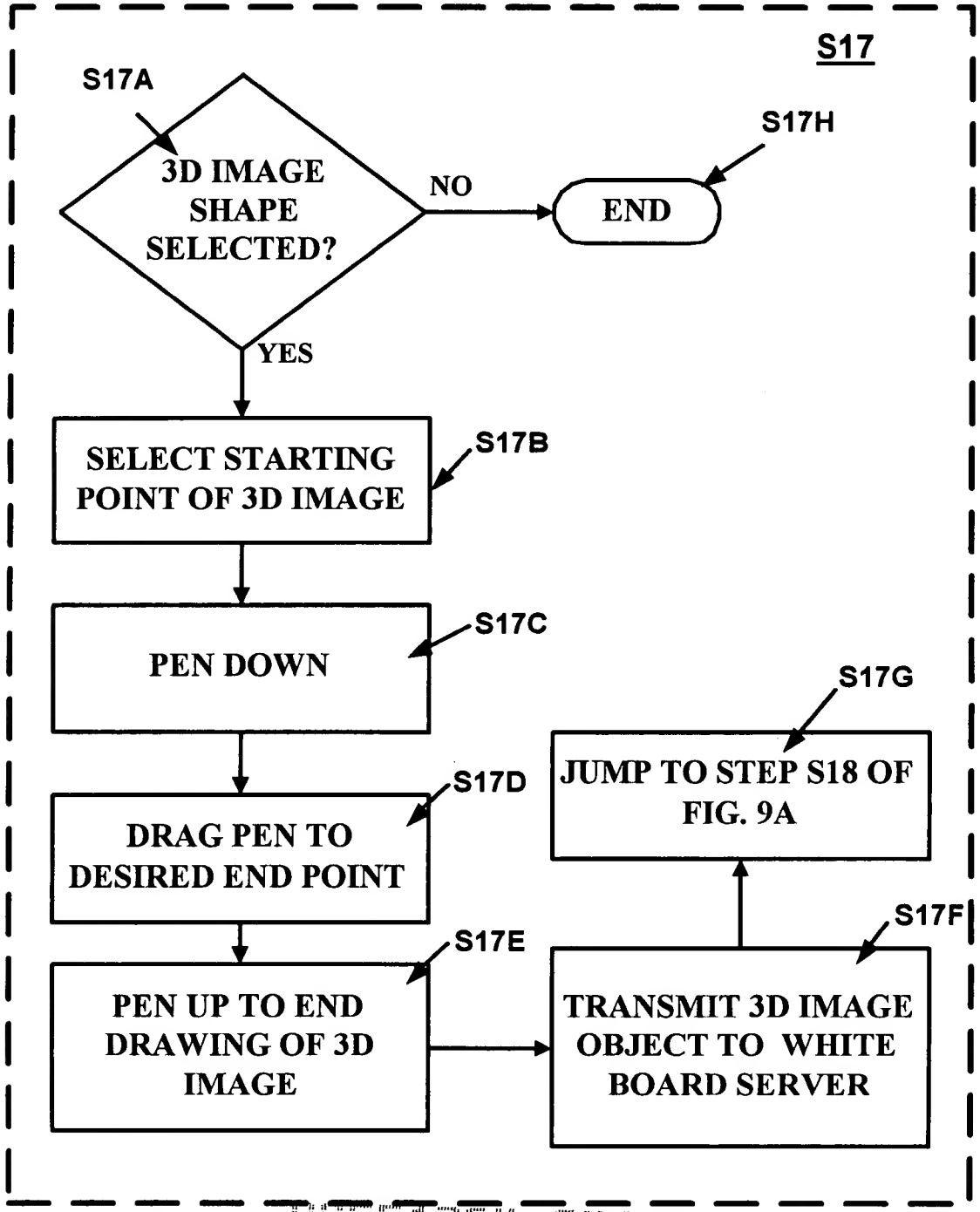

S17
S17A
3D IMAGE SHAPE SELECTED?
NO
S17H
END
YES
SELECT STARTING POINT OF 3D IMAGE
S17B
PEN DOWN
S17C
DRAG PEN TO DESIRED END POINT
S17D
PEN UP TO END DRAWING OF 3D IMAGE
S17E
TRANSMIT 3D IMAGE OBJECT TO WHITE BOARD SERVER
S17F
JUMP TO STEP S18 OF FIG. 9A
S17G

Fig. 10F

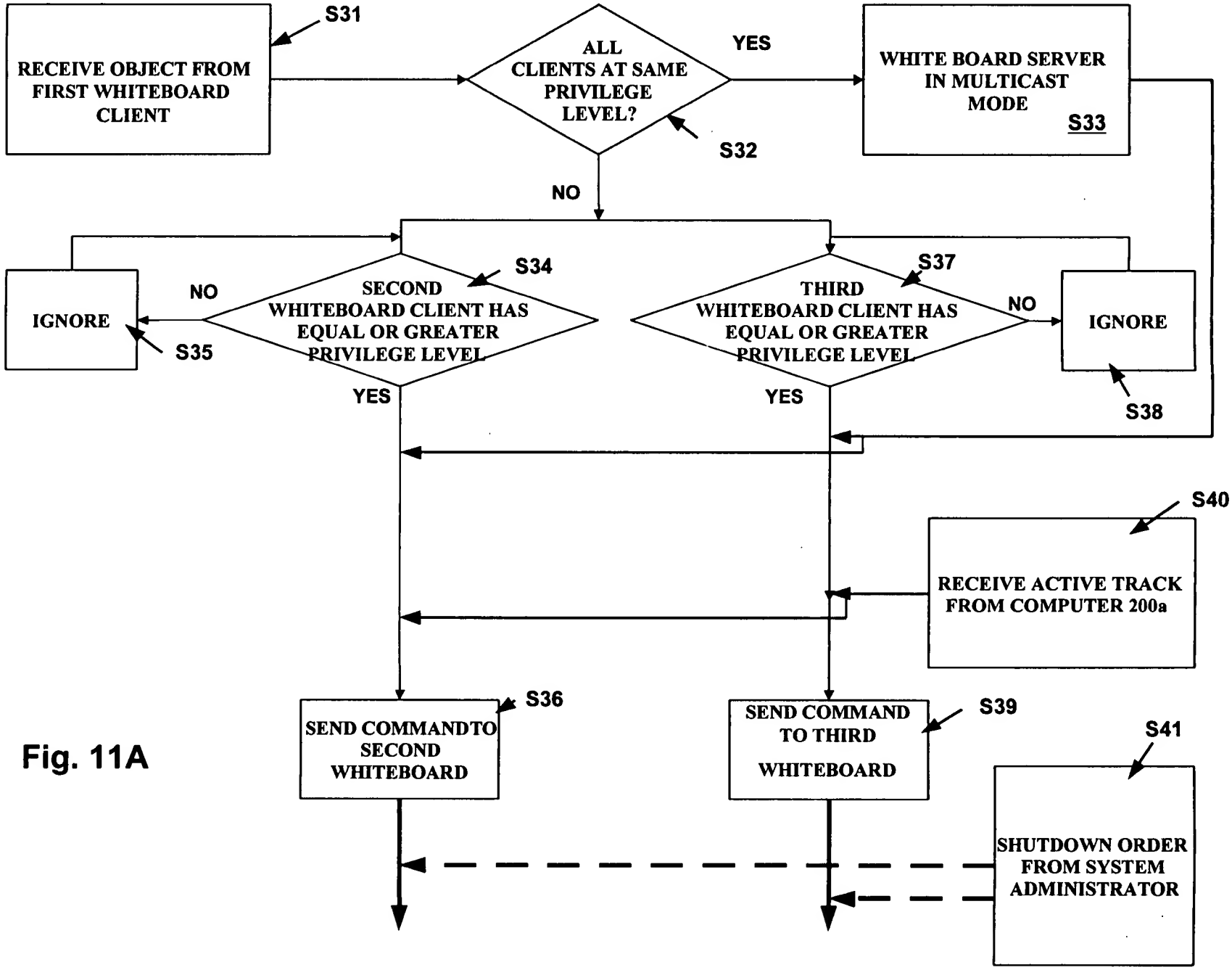


Fig. 11A

09513614.041700

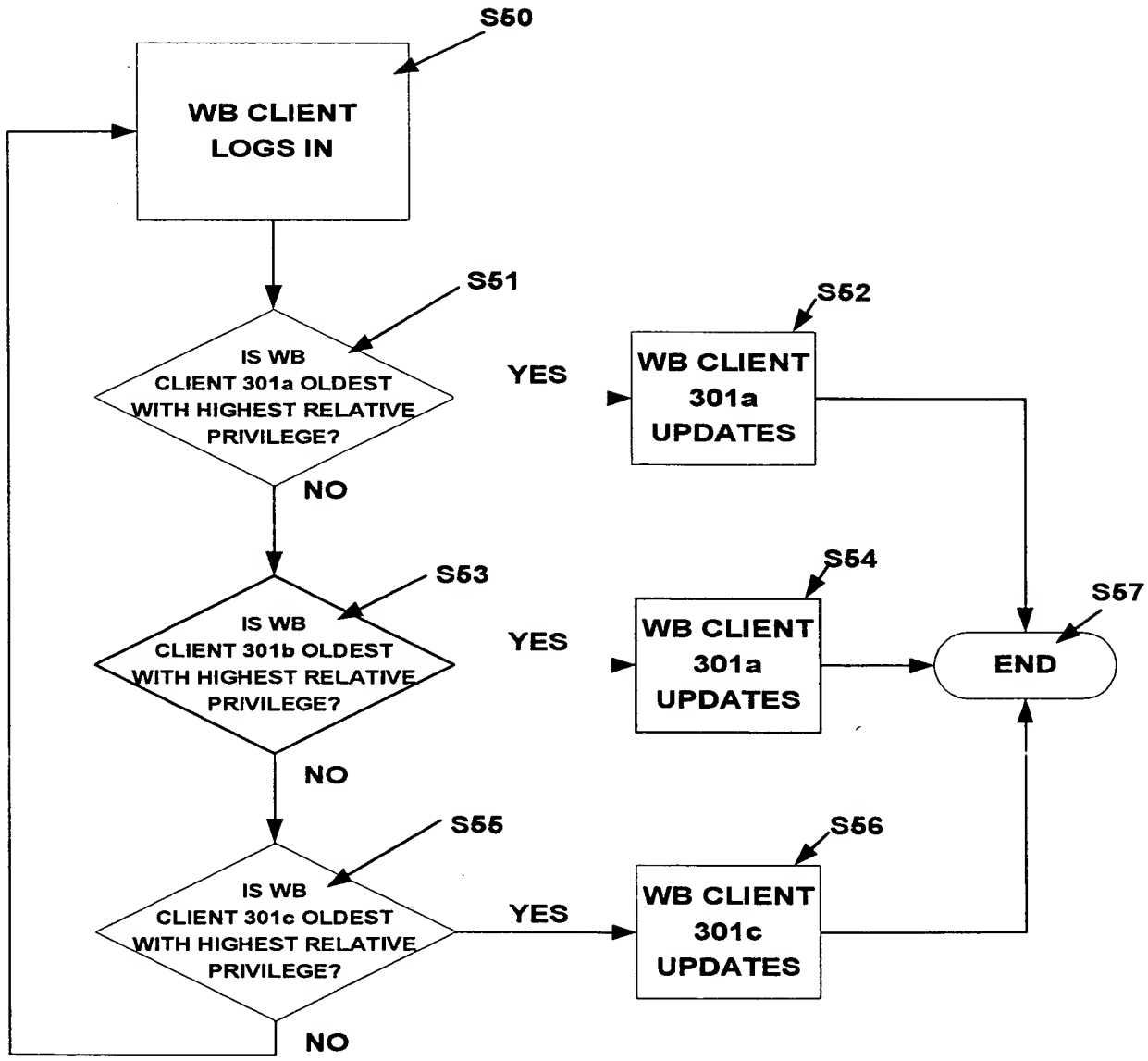

S50
WB CLIENT LOGS IN
S51
IS WB CLIENT 301a OLDEST WITH HIGHEST RELATIVE PRIVILEGE?
YES
S52
WB CLIENT 301a UPDATES
NO
S53
IS WB CLIENT 301b OLDEST WITH HIGHEST RELATIVE PRIVILEGE?
YES
S54
WB CLIENT 301a UPDATES
S57
END
NO
S55
IS WB CLIENT 301c OLDEST WITH HIGHEST RELATIVE PRIVILEGE?
YES
S56
WB CLIENT 301c UPDATES
NO

FIG. 11B

Fig. 12A

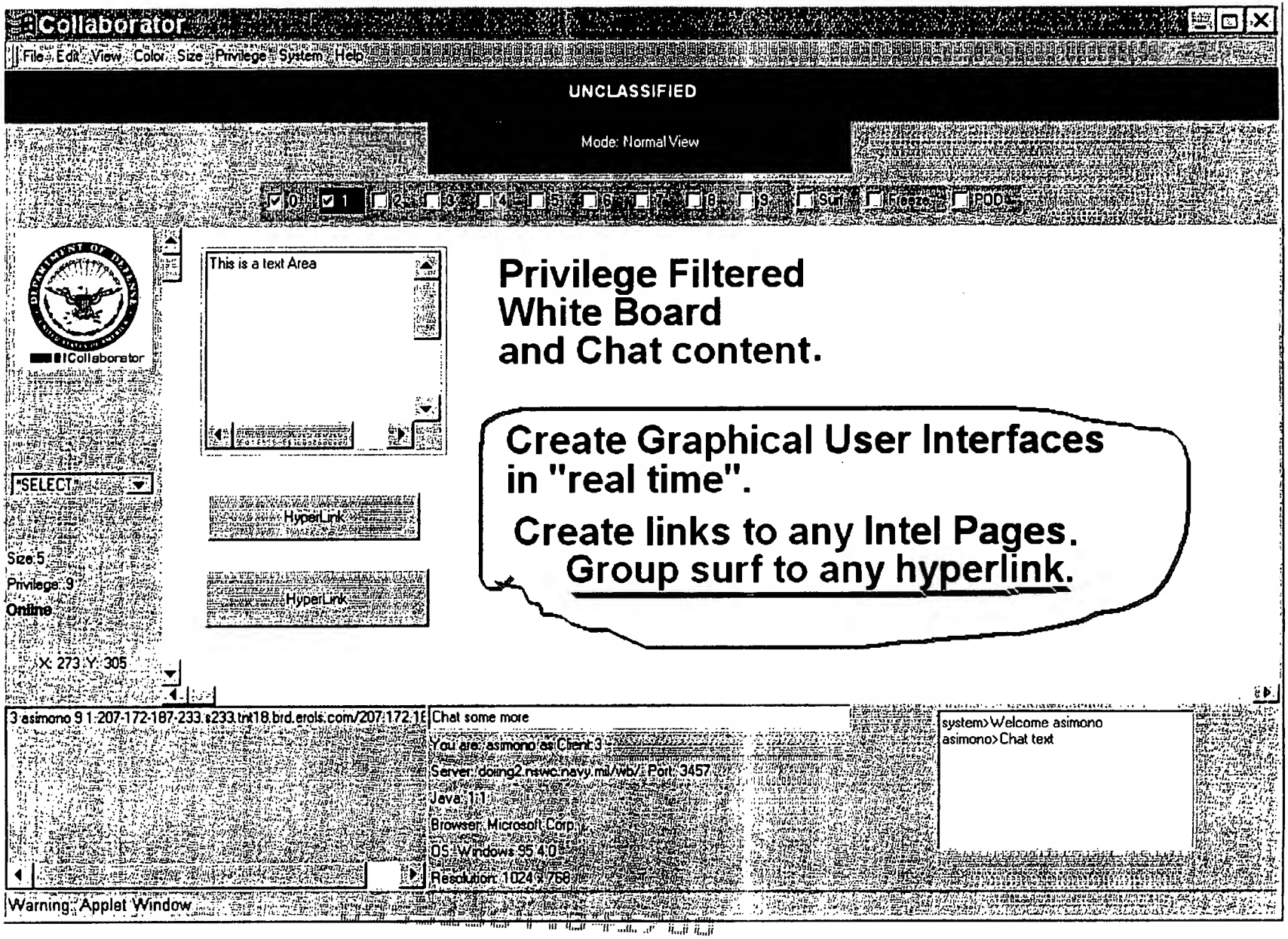

Collaborator
File Edit View Color Size Privilege System Help
UNCLASSIFIED
Mode: Normal View
0 1 2 3 4 5 6 7 8 9 Surf Freeze POD
This is a text Area
Collaborator
Privilege Filtered
White Board
and Chat content.
Create Graphical User Interfaces
in "real time".
Create links to any Intel Pages.
Group surf to any hyperlink.
"SELECT"
HyperLink
HyperLink
Size:5
Privilege: 9
Online
X: 273 Y: 305
3 asimono 9 1-207-172-187-233.s233.tnt18.brd.erols.com/207.172.1
Chat some more
You are: asimono as Client 3
Server: doing2.nswc.navy.mil/wb/ Port: 3457
Java: 1.1
Browser: Microsoft Corp.
OS: Windows 95 4.0
Resolution: 1024 x 768
system>Welcome asimono
asimono>Chat text
Warning: Applet Window

Fig. 12B

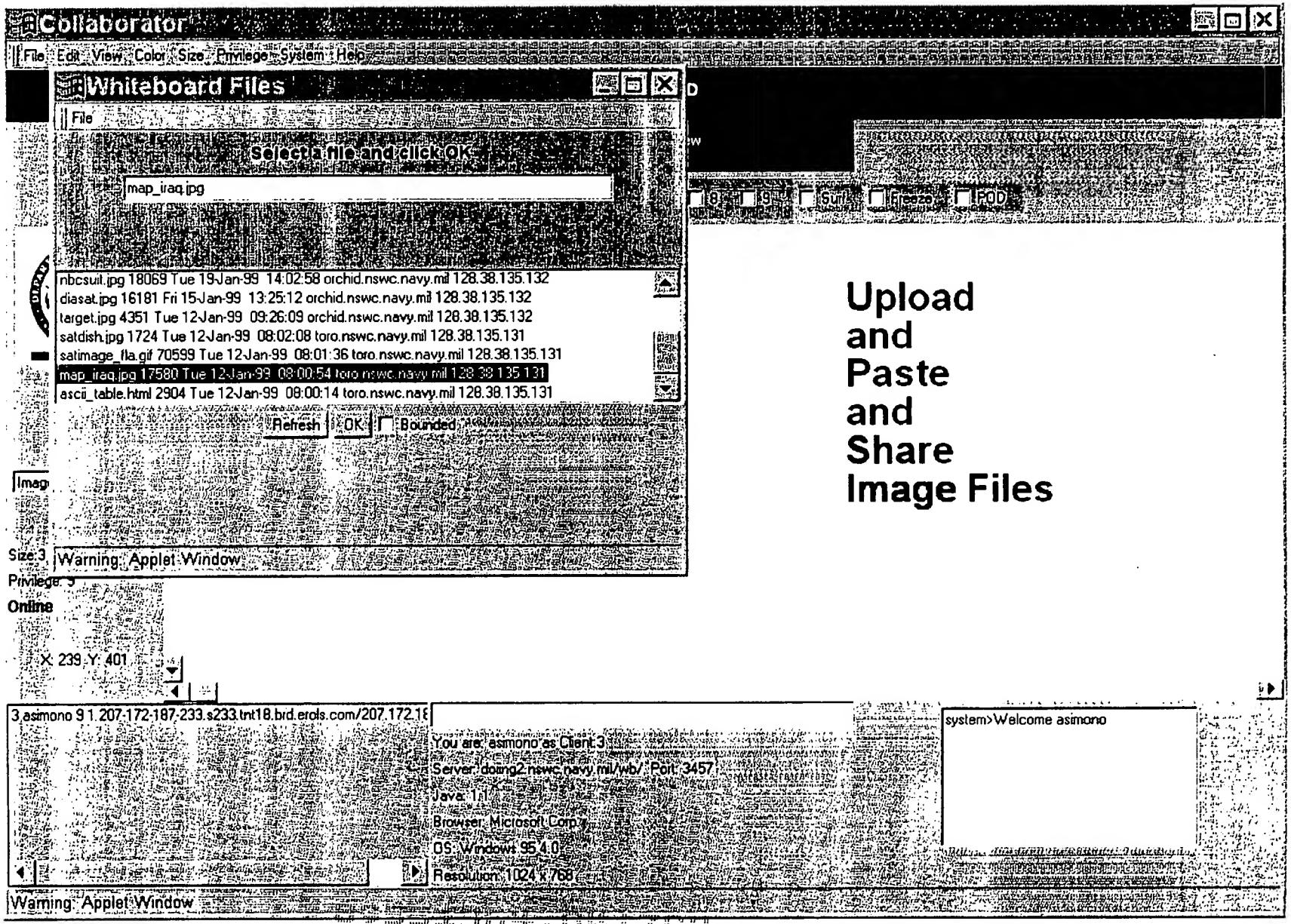
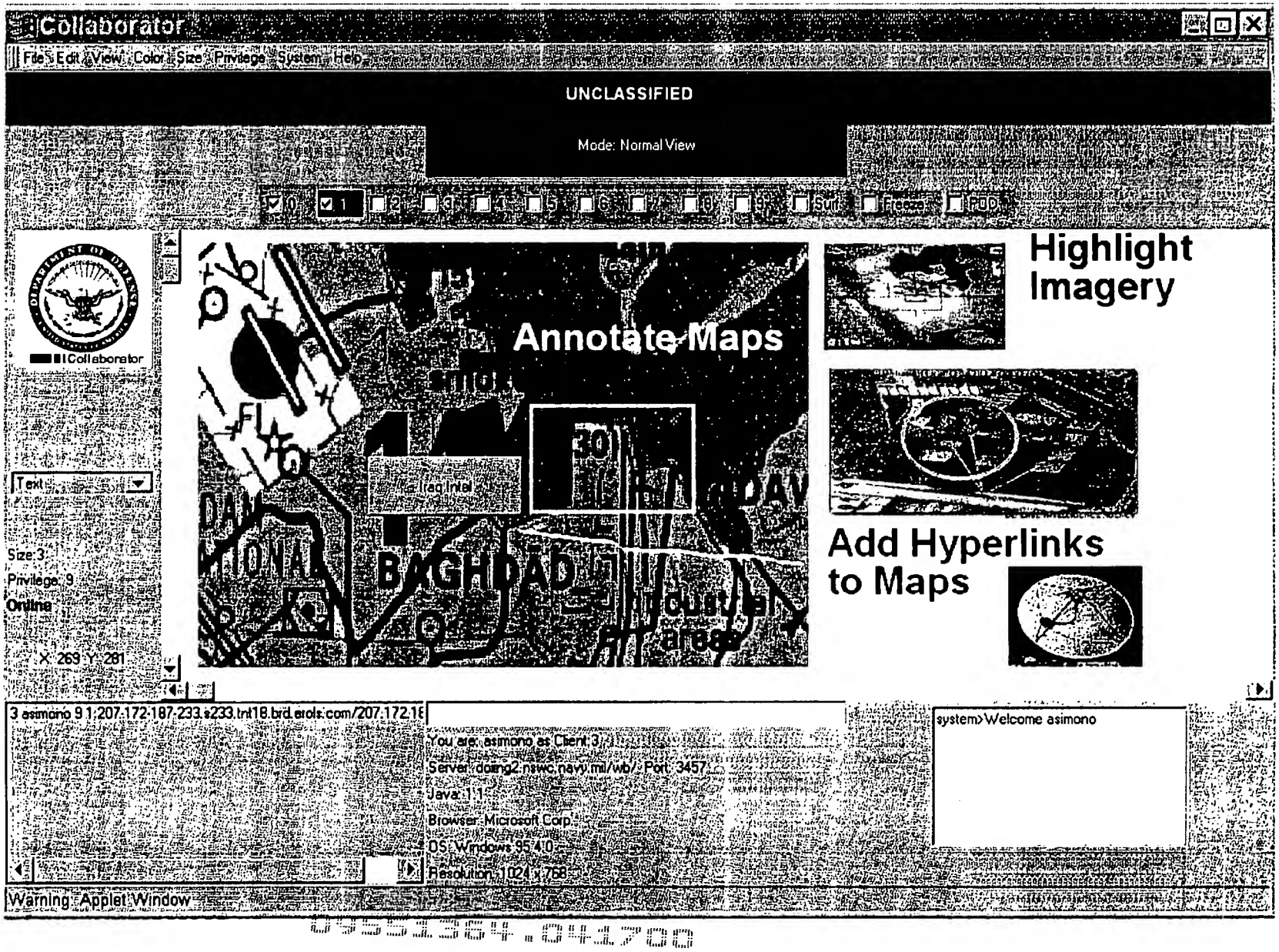

Collaborator
File Edit View Color Size Privilege System Help
Whiteboard Files
File
Select a file and click OK
map_iraq.jpg
nbcsuit.jpg 18069 Tue 19-Jan-99 14:02:58 orchid.nswc.navy.mil 128.38.135.132
diasat.jpg 16181 Fri 15-Jan-99 13:25:12 orchid.nswc.navy.mil 128.38.135.132
target.jpg 4351 Tue 12-Jan-99 09:26:09 orchid.nswc.navy.mil 128.38.135.132
satdish.jpg 1724 Tue 12-Jan-99 08:02:08 toro.nswc.navy.mil 128.38.135.131
satimage_fla.gif 70599 Tue 12-Jan-99 08:01:36 toro.nswc.navy.mil 128.38.135.131
map_iraq.jpg 17580 Tue 12-Jan-99 08:00:54 toro.nswc.navy.mil 128.38.135.131
ascii_table.html 2904 Tue 12-Jan-99 08:00:14 toro.nswc.navy.mil 128.38.135.131
Refresh
OK
Bounded
Warning: Applet Window
8
9
Surf
Freeze
FoD
Upload
and
Paste
and
Share
Image Files
Online
X: 239 Y: 401
3 asimono 9 1 207-172-187-233.s233.tnt18.brd.erols.com/207.172.18
You are: asimono as Client 3
Server: doang2.nswc.navy.mil/wb/ Port: 3457
Java: 1.1
Browser: Microsoft Corp.
OS: Windows 95 4.0
Resolution: 1024 x 768
system>Welcome asimono
Warning: Applet Window

Fig. 12C


Collaborator
File Edit View Color Size Privilege System Help
UNCLASSIFIED
Mode: Normal View
Annotate Maps
Highlight Imagery
Add Hyperlinks to Maps
Collaborator
Text
Size: 3
Privilege: 9
Online
X: 269 Y: 281
BAGHDAD
3 asimono 9 1:207.172.187.233.s233.tnt18.brd.erols.com/207.172.18
You are: asimono as Client: 3
Server: doing2.nswc.navy.mil/wb/: Port: 3457
Java: 1.1
Browser: Microsoft Corp.
OS: Windows 95 4.0
Resolution: 1024 x 768
system>Welcome asimono
Warning: Applet Window

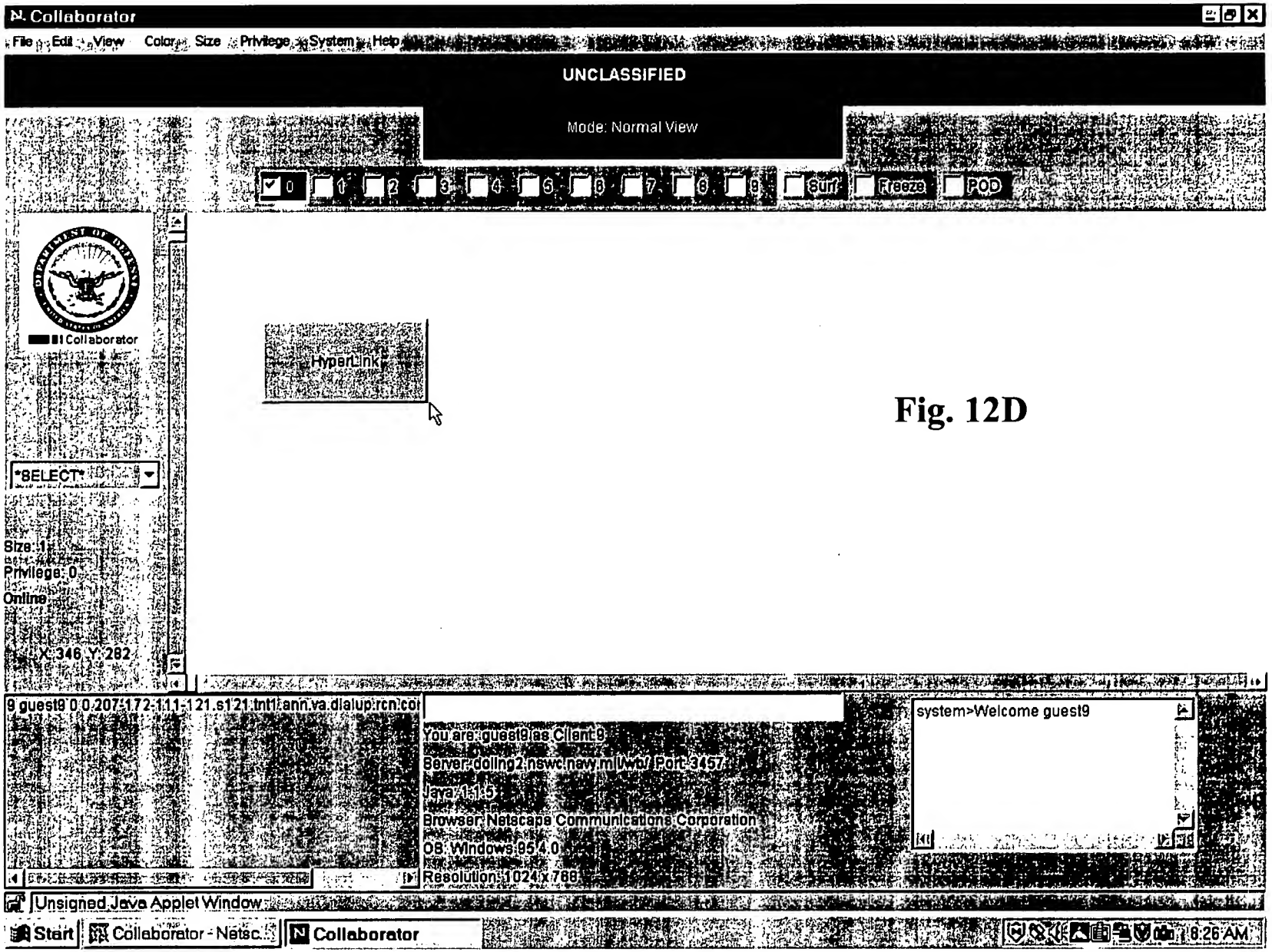

Collaborator
File Edit View Color Size Privilege System Help
UNCLASSIFIED
Mode: Normal View
0 1 2 3 4 5 6 7 8 9 Surf Freeze POD
Collaborator
HyperLink
SELECT
Size: 1
Privilege: 0
Online
X: 346 Y: 282
9 guest9 0.0.207.172-111-121.s121.tnt1.ann.va.dialup.rcn.com
You are: guest9 as Client 9
Server: doling2.nswc.navy.mil Port: 3457
Java: 1.1.5
Browser: Netscape Communications Corporation
OS: Windows 95 4.0
Resolution: 1024 x 768
system>Welcome guest9
Unsigned Java Applet Window
Start
Collaborator - Netsc...
Collaborator
6:26 AM

Fig. 12D

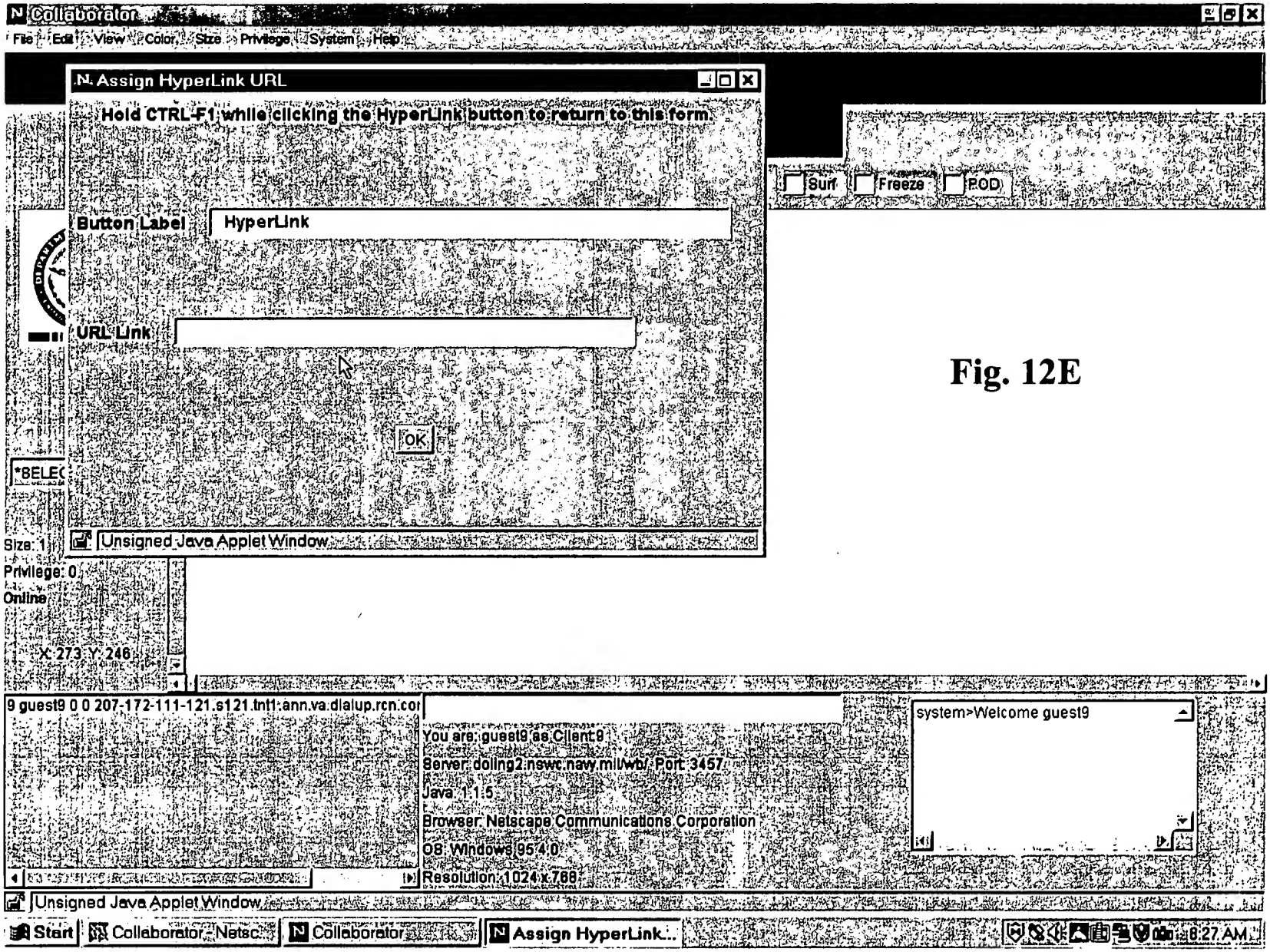


Fig. 12E

0953364 04L760

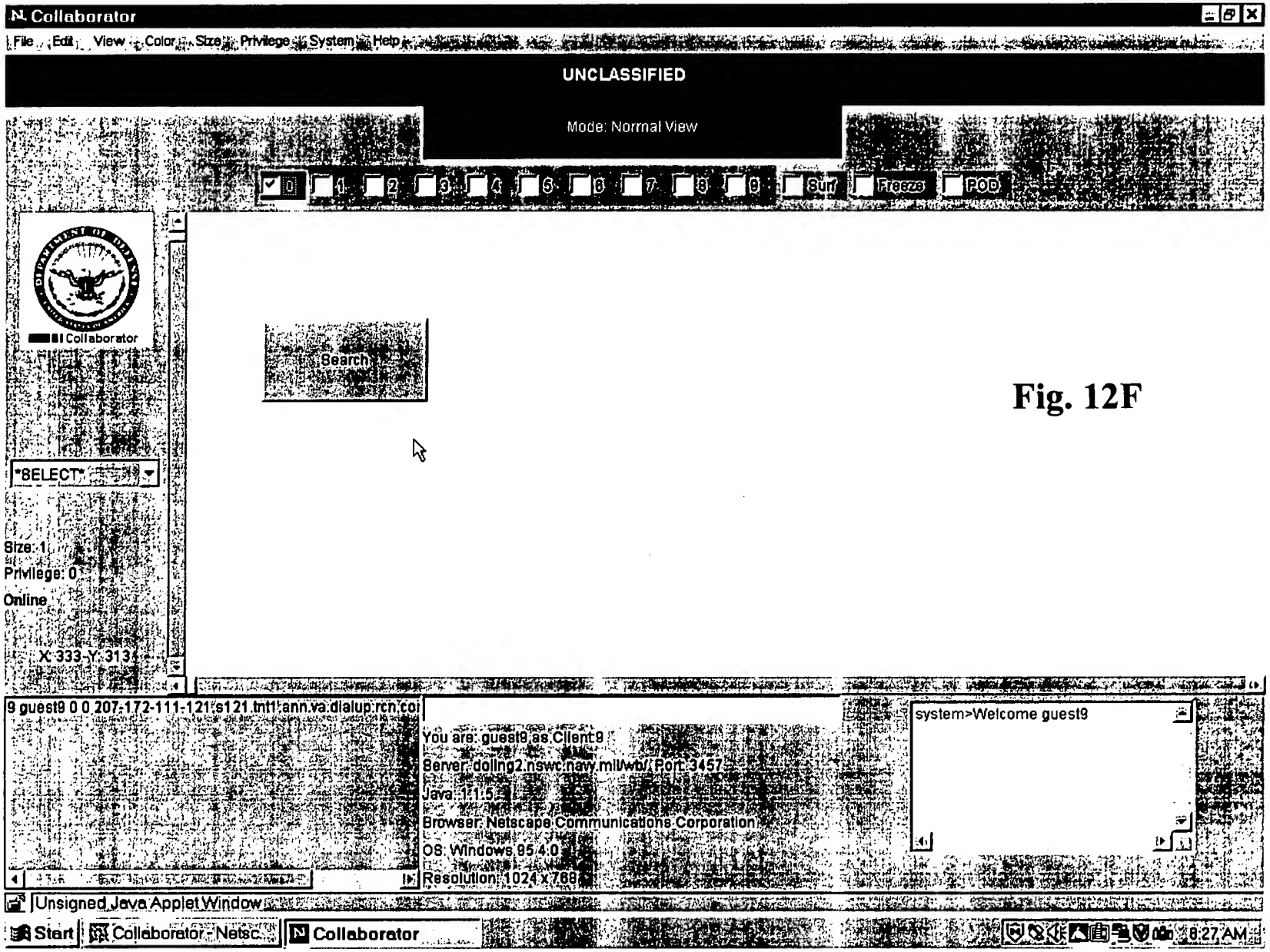


Fig. 12F

05534364.014708

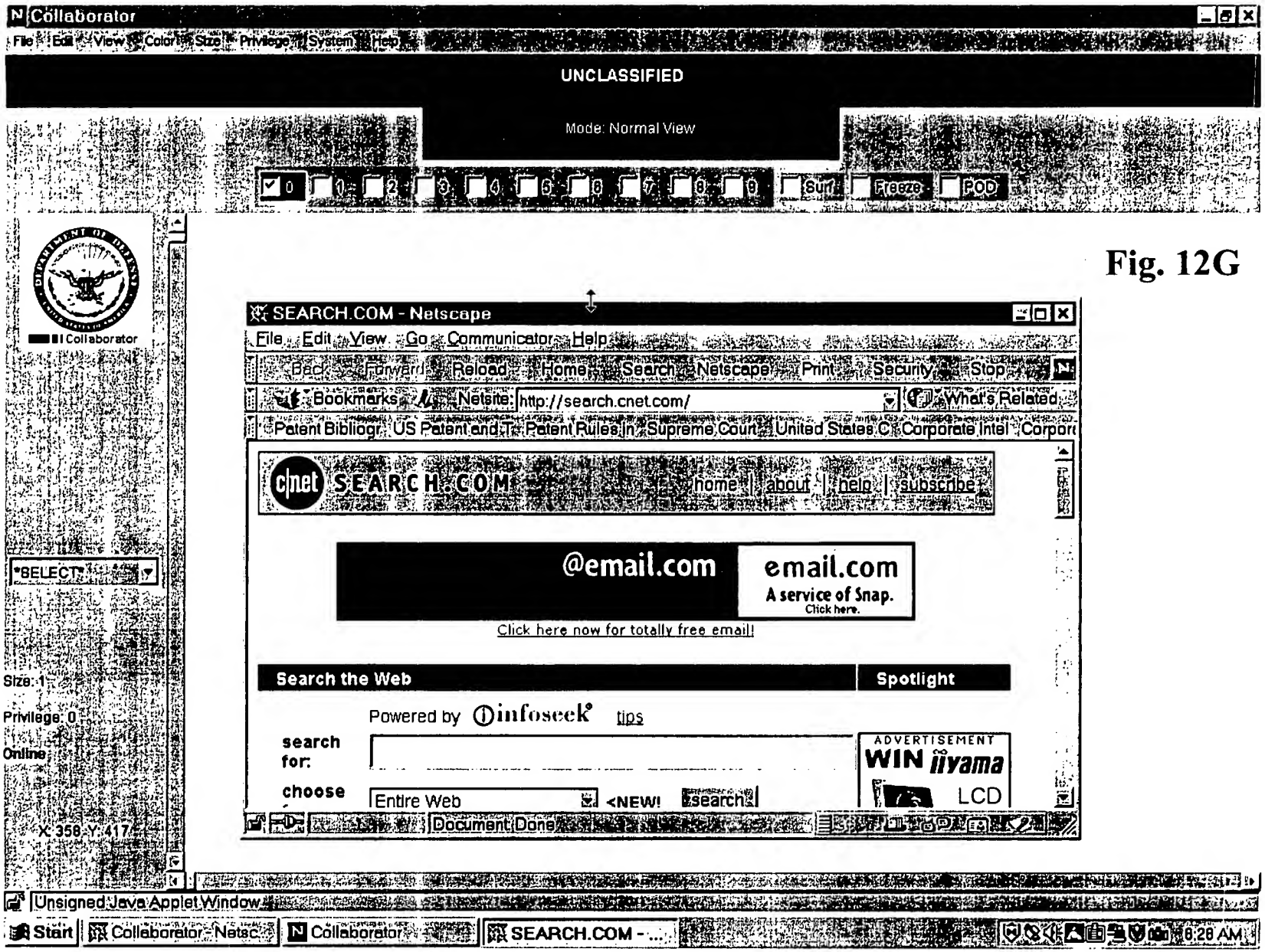
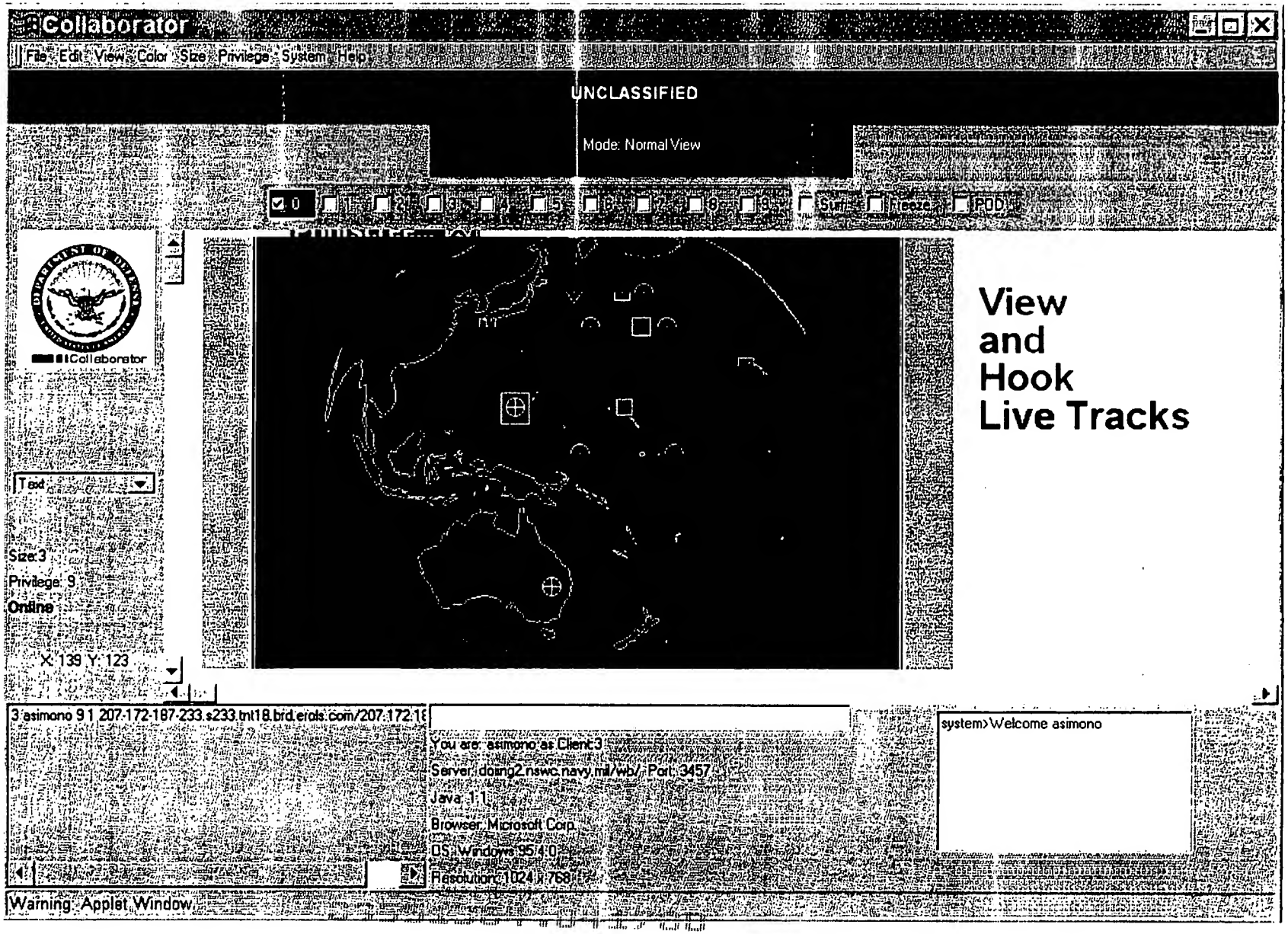


Fig. 12G

09534364 - 041799

Fig. 12H


Collaborator
File Edit View Color Size Privilege System Help
UNCLASSIFIED
Mode: Normal View
Surf
Freeze
POD
Collaborator
Text
Size:3
Privilege: 9
Online
X: 139 Y: 123
View
and
Hook
Live Tracks
3 asimono 9 1 207-172-187-233.s233.tnt18.brd.erols.com/207.172.18
You are: asimono as Client3
Server: doimg2.nswc.navy.mil/wb/ Port: 3457
Java: 1.1
Browser: Microsoft Corp.
OS: Windows 95/4.0
Resolution: 1024 x 768
system>Welcome asimono
Warning: Applet Window